## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Mangiardi et al. Confirmation No. 4411 Application No. 10/618,223 Filed: July 11, 2003 For: LUMEN-MEASURING DEVICES AND **METHOD** Group Art Unit: 3736 Examiner: Emily M. Lloyd Attorney Docket No. 37621/51301 Date: July 13, 2010 **INFORMATION DISCLOSURE STATEMENT** TO THE COMMISSIONER FOR PATENTS: 1. Pursuant to the duty of disclosure, documents listed on the accompanying Form PTO-1449 (or equivalent) are presented for the Examiner's consideration. 冈 Copies of listed U.S. patents and U.S. patent application publications are not required for submission. (37 C.F.R. § 1.98(a)(2)(ii)) X Copies of listed foreign patent documents and/or non-patent literature are enclosed. (37 C.F.R. § 1.98(a)(2)) Copies of the documents listed at (sheet/cite no.) \_\_\_\_\_ of the attached Form PTO-1449 (or equivalent) are omitted because (1) they are already of record in U.S. Patent Application No. \_\_\_\_\_\_, filed \_\_\_\_\_\_, on which this application relies for an earlier filing date under 35 U.S.C. § 120; and (2) any information disclosure statement filed in the prosecution of Application \_\_\_\_, complies with 37 CFR §§ 1.98(a) through (c). (37 C.F.R. No. § 1.98(d))

2. This information disclosure statement is being submitted (check box a., b., or c.):

a. Within three months of the filing date of a national application or entry of the national stage in an international application; or before the mailing of a first Office action on the merits; or before the mailing of a first Office

attached Form PTO-1449 (or equivalent), is enclosed / is omitted. (Copy

A copy of copending U.S. Patent Application No. \_\_\_\_\_\_, filed

not required if available via IFW. 1287 OG 163 (Oct. 19, 2004).).

, listed at (sheet/cite no.) of the

			action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.); or		
	b.		After the period set forth in paragraph 2a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)		
		i.	$\boxtimes$	The \$180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is paid herewith, or	
		ii.		A statement specified by 37 CFR 1.97(e) is set forth below; or	
	c.		before is set f	he mailing date of a final action or notice of allowance and on or payment of the issue fee. A statement specified by 37 CFR 1.97(e) orth below. Enclosed is the \$180.00 information disclosure ent processing fee set forth in 37 CFR 1.17(p).	
3. Fee Payment					
	a.		A chec	ek in the amount of \$ is enclosed.	
	b.	$\boxtimes$	Payme	nt by credit card.	
	c.			charge our Deposit Account No. 502375 in the amount of	
	d.	$\boxtimes$	which	ommissioner is hereby authorized to charge any additional fees may be required in connection with filing of these papers, or credit yment to Deposit Account No. 502375.	
4.		tatement specified by 37 CFR 1.97(e) is required, the attorney or agent signing whereby states that:			
	each item of information contained in this information disclosure statement we first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or  no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this informatio disclosure statement was known to any individual designated in 37 CFR 1.56(more than three months prior to the filing of the information disclosure statement			ny communication from a foreign patent office in a counterpart ation not more than three months prior to the filing of the	

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5.  $\boxtimes$ A concise explanation of the relevance of each document not in the English language and/or selected documents in the English language is set forth below.

Respectfully submitted.

Merit Medical Systems, Inc.

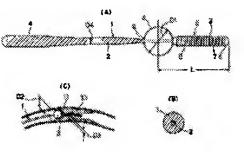
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## WIRE FOR MEASURING DIAMETER OF BLOOD VESSEL

Abstract: JP19999573

PROBLEM TO BE SOLVED: To provide a wire 1 for measuring the diameter of a blood vessel which enables accurate measurement of the diameter D3 of a constricted blood vessel and the diameter D2 of a normal blood vessel in the expansive treatment of a constricted part 10 of a coronary artery by a balloon or the like. SOLUTION: The main body of this wire is a flexible very slender wire body 2 which is inserted into a blood vessel from the tip part 5 of the wire while a wire operating part 4 at the rear end thereof is placed outside. A measuring ball body 3 which is fastened on the wire body 2 as round ball with the diameter D1 piercing the wire body 2 in the radial direction thereof while being made of a non-radiation transmitting material is disposed following the wire tip part 5 of the wire body 2. The measuring ball body 3 is inserted into a constricted part 10 of the blood vessel of a patient to measure and calculate the diameter D3 of the constricted blood vessel and the diameter D2 of a normal blood vessel using the



diameter D1 thereof measured by radiation outside a human body as reference.